

Applicants: Tatjana Dragic and William C. Olson  
Serial No.: 10/086,814  
Filed : February 28, 2002  
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Parts Of Application, and (2) the present Amendment In Compliance With Requirements For Patent Applications Containing Nucleotide Sequences and/or Amino Acid Sequences Set Forth In April 3, 2002 Notice To File Missing Parts of Application in response to the Notice in this case. Whereas the present Amendment is addressed as shown above, Applicants are also submitting, under separate cover, on the same date as this Amendment, a Communication In Response To April 3, 2002 Notice To File Missing Parts Of Application addressed to Assistant Commissioner for Patents, Washington, D.C. 20231, Attn: Box Missing Parts. The required small entity fee for a four month extension of time is \$720.00 and a check including this amount is enclosed with the above identified Communication. Therefore, the (1) Communication In Response To April 3, 2002 Notice To File Missing Parts Of Application and the (2) Amendment In Compliance With Requirements For Patent Applications Containing Nucleotide Sequences and/or Amino Acid Sequences Set Forth In April 3, 2002 Notice To File Missing Parts of Application are now due October 3, 2002. Accordingly, the two above identified responses are being timely filed.

Please amend the application as detailed below.

In the specification:

Please amend as follows. Attached hereto as Exhibit B is a marked up copy of the amended portions of the specification.

Please replace the paragraph on page 5 lines 1-26 with the following paragraph:

Summary of the Invention

This invention provides a compound comprising the

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structure:



wherein each T represents a threonine, each S represents a serine, each Y represents a tyrosine; each D represents an aspartic acid, each I represents an isoleucine; and each N represents an asparagine; wherein  $\alpha$  represents from 0 to 9 amino acids, with the proviso that if there are more than 2 amino acids, they are joined by peptide bonds in consecutive order and have a sequence identical to the sequence set forth in SEQ ID NO: 1 beginning with the I at position 9 and extending therefrom in the amino terminal direction; wherein  $\beta$  represents from 0 to 14 amino acids, with the proviso that if there are more than 2 amino acids, they are joined by peptide bonds in consecutive order and have a sequence identical to the sequence set forth in SEQ ID NO: 1 beginning with the E at position 18 and extending therefrom in the carboxy terminal direction; wherein  $\theta$  represents an amino group or an acetylated amino group; wherein  $\lambda$  represents a carboxyl group or an amidated carboxyl group; wherein all of  $\alpha, Y, D, I, N, Y, Y, T, S$  and  $\beta$  are joined together by peptide bonds; further provided that at least two tyrosines in the compound are sulfated (SEQ ID NO: 3-14).

Please replace the paragraph which begins on page 5 line 28 and ends on page 6 line 23 with the following paragraph:

This invention also provides a compound comprising the structure:



wherein each T represents a threonine, each S represents a serine, each Y represents a tyrosine; each D represents an aspartic acid, each I represents an isoleucine; and each N

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represents an asparagine; wherein  $\alpha$  represents from 0 to 9 amino acids, with the proviso that if there are more than 2 amino acids, they are joined by peptide bonds in consecutive order and have a sequence identical to the sequence set forth in SEQ ID NO: 1 beginning with the I at position 9 and extending therefrom in the amino terminal direction; wherein  $\beta$  represents from 0 to 334 amino acids, with the proviso that if there are more than 2 amino acids, they are joined by peptide bonds in consecutive order and have a sequence identical to the sequence set forth in SEQ ID NO: 1 beginning with the E at position 18 and extending therefrom in the carboxy terminal direction; wherein  $\theta$  represents an amino group or an acetylated amino group; wherein  $\lambda$  represents a carboxyl group or an amidated carboxyl group; wherein all of  $\alpha$ , Y, D, I, N, Y, Y, T, S and  $\beta$  are joined together by peptide bonds; further provided that at least two tyrosines in the compound are sulfated (SEQ ID NO: 15-26).

Please replace the paragraph on page 18 lines 11-17 with the following paragraph:

**Fig. 6 CCR5 Nt peptide sequences and labels**

The primary sequence of each peptide is indicated in the left column and the corresponding label is indicated in the right column. Sulfated tyrosine residues are designated by black boxes and white boxes designate phosphorylated tyrosine residues (SEQ ID NO: 27-38).

Please replace the paragraph on page 21 lines 3-27 with the following paragraph:

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This invention provides a compound comprising the structure:



wherein each T represents a threonine, each S represents a serine, each Y represents a tyrosine; each D represents an aspartic acid, each I represents an isoleucine; and each N represents an asparagine; wherein  $\alpha$  represents from 0 to 9 amino acids, with the proviso that if there are more than 2 amino acids, they are joined by peptide bonds in consecutive order and have a sequence identical to the sequence set forth in SEQ ID NO: 1 beginning with the I at position 9 and extending therefrom in the amino terminal direction; wherein  $\beta$  represents from 0 to 14 amino acids, with the proviso that if there are more than 2 amino acids, they are joined by peptide bonds in consecutive order and have a sequence identical to the sequence set forth in SEQ ID NO: 1 beginning with the E at position 18 and extending therefrom in the carboxy terminal direction; wherein  $\theta$  represents an amino group or an acetylated amino group; wherein  $\lambda$  represents a carboxyl group or an amidated carboxyl group; wherein all of  $\alpha, Y, D, I, N, Y, Y, T, S$  and  $\beta$  are joined together by peptide bonds; further provided that at least two tyrosines in the compound are sulfated (SEQ ID NO: 3-14).

Please replace the paragraph which begins on page 23 line 13 and ends on page 24 line 7 with the following paragraph:

This invention also provides a compound comprising the structure:



wherein each Y represents a tyrosine; each D represents an aspartic acid, each I represents an isoleucine; and each N